CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelanka New town Sub Division,
BBMP.

02nd September 2017

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Wet Mix Macadam supplied by you, for the work of **'Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

AE W3 OD

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AE-DJ

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	02/09/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
45	95-100	**98.4**	
22.4	60-80	**76.5**	
11.2	40-60	**53.2**	
4.75	25-40	**32.6**	
2.36	15-30	**25.8**	
0.6	8-22	**17.5**	
0.075	0-8	**6.6**	

AE W3

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

AE-03

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	02/09/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
45	95-100	**97.5**	
22.4	60-80	**75.6**	
11.2	40-60	**54.8**	
4.75	25-40	**33.6**	
2.36	15-30	**24.5**	
0.6	8-22	**18.6**	
0.075	0-8	**7.1**	

EW3

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AE-03

Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	02/09/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-3		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
45	95-100	**98.8**	
22.4	60-80	**76.5**	
11.2	40-60	**55.8**	
4.75	25-40	**32.4**	
2.36	15-30	**25.6**	
0.6	8-22	**17.8**	
0.075	0-8	**6.9**	

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Quality Manager

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TEST REPORT

COMBINED FLAKINESS AND ELONGATION INDEX TEST ON AGGREGATES

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of the Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of the Agency	Sri. K. Ravi Kumar
Sample	Wet Mix Macadam
Date of Testing	02/09/2017
Technical Reference	IS 2386(Part 1)- 1963 (Reaffirmed-2016)

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Requirements As per MORTH (4th Revision) Table 400-10 for WMM
Flakiness Index	11.5	24.1	Maximum allowed 'C-F&E' is 30 %
Elongation Index	12.6		

Remarks	**Satisfies the requirement**

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AE-03

Khushboo

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Quality Manager

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TEST REPORT

DETERMINATION OF AGGREGATE IMPACT VALUE

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of the Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of the Agency	Sri. K. Ravi Kumar
Sample	Wet Mix Macadam
Date of Testing	02/09/2017
Technical Reference	IS 2386(Part 4)- 1963 (Reaffirmed-2016)

Sample No.	Aggregate Impact Value, 'AIV' in %	Average 'AIV' in %	Requirements As per MORTH (4th Revision) Table 400-10 for WMM
1	20.4	21.0	Maximum allowed 'AIV' is 30%
2	21.5		

Remarks	**Satisfies the requirement**

AEW3

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T-2654

To,

Assistant Executive Engineer,
Yelanka New town Sub Division,
BBMP.

12th July 2017

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

EW3

AE-03

CIVIL TECH LABS

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Change of palce for Improvements to roads and side drains 7th cross road of Attur layout in Attur ward no. 03 (Improvements to roads and side drains at Adithya nagara in Auttur ward no. 03).
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	12/07/2017

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	488	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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AE W 3

AE-03

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager